AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims

1. (Previously presented) A compound according to the general formula Ia or Ib:

wherein in each,

R1 is H, C₁-C₆ alkyl, cycloalkyl, or C₁-C₄ alkylcycloalkyl;

 $\label{eq:R2} R2 \qquad is \ C_1-C_{14} \ alkyl, \ C_2-C_{14} \ alkenyl, \ 1,3-butadienyl, \ 1-butane, \ C_1-C_4 \ alkylaryl, \ heteroaryl, \ C_1-C_4 \ alkylheteroaryl, \ cycloalkyl, \ C_1-C_4 \ alkyl-cycloalkyl, \ heterocycloalkyl, \ C_1-C_4 \ alkylheterocycloalkyl, \ C_mH_{2m+o-p}Y''_p, \ CH_2NHCOR21, \ CH_2NHCSR21, \ CH_2S(O)nR21, \ with \ n = 0, 1, 2, \ CH_2SCOR21, \ CH_2OSO_2-R21, \ CHO, \ CH=NOH, \ CH(OH)R21, \ -CH=NOR21, \ -CH=NOCOR21, \ -CH=NOCH_2CONR21R22, \ -CH=NOCH(CH_3)CONR21R22, \ -CH=NOCOR21, \ -CH=N$

CH=N-O-CH₂NHCOR21, -CH=N-NHCS-R23, -CH=CR24R25 (trans or cis), COOH,

COOR21, CONR21R22, -CH=NR21, -CH=N-NR21R22,

-CH=N-NHSO2 aryl, or -CH=N-NHSO2 heteroaryl,

wherein m is 1 to 6, o is 1, p is 1 to 2m+o;

m is 2 to 6, o is -1, p is 1 to 2m+o; or

m is 4 to 6, o is -2, p is 1 to 2m+o;

each other H or C₁-C₆ alkyl;

Y'' is independently from each other selected from the group consisting of halogen, OH, OR21, NH₂, NHR21, NR21R22, SH and SR21; and wherein X' is NR215, O, or S; and R211, R212, R213, R214, R215 are independently from

R21, R22 are independently from each other C₁-C₁₄ alkyl, C₁-C₁₄ alkanoyl, C₁-C₆ alkylhydroxy, C₁-C₆ alkylamino, C₁-C₆ alkylamino-C₁-C₆ alkylamino-di-C₁-C₆ alkylhydroxy, C₁-C₆ alkylamino-di-C₁-C₆ alkylhydroxy, C₁-C₄ alkylcycloalkyl, heterocycloalkyl, C₁-C₄ alkylheterocycloalkyl, aryl, aryloyl, C₁-C₄ alkylaryl, heteroaryl, heteroaryloyl, C₁-C₄ alkylheteroaryl, cycloalkanoyl, C₁-C₄ alkanoylcycloalkyl, heterocycloalkanoyl, C₁-C₄ alkanoylheterocycloalkyl, C₁-C₄ alkanoylheterocycloalkyl, C₁-C₄ alkanoylheteroaryl, or mono- and di-sugars linked through a C atom which would carry an OH group in the sugar, wherein the sugars are independently from each other selected from the group consisting of glucuronic acid and its stereo isomers at all optical atoms, aldopentoses, and aldohexoses, including their desoxy compounds;

R23 independently of R21, is R21, a CH₂-pyridinium salt, or a CH₂-tri-C₁-C₆ alkylammonium salt;

R24 independently of R21, is R21, H, CN, COCH₃, COOH, COOR21, CONR21R22, NH₂, or NHCOR21;

R25 independently of R21, is R21, H, CN, COCH₃, COOH, COOR21, CONR21R22, NH₂, or NHCOR21; or

is C_2 - C_{14} alkyl, C_2 - C_{14} alkenyl, C_2 - C_{14} alkinyl, aryl, C_1 - C_4 alkylaryl, heteroaryl, C_1 - C_4

R24, R25 together are C₄-C₈ cycloalkyl;

alkylheteroaryl, wherein the aryls or heteroaryls may be substituted with another aryl, C_1 - C_4 alkylaryl, O-aryl, C_1 - C_4 alkyl-O-aryl, heteroaryl, C_1 - C_4 alkylheteroaryl, O-heteroaryl or C_1 - C_4 alkyl-O-heteroaryl, eycloalkyl, C_1 - C_4 alkylcycloalkyl, heterocycloalkyl, C_1 - C_4 alkylheterocycloalkyl, C_m - C_4 - C_4 alkylheterocycloalkyl, C_m - C_4 -C

CH=CR34R35 (trans or cis), COOH, COOR31, CONR31R32, -CH=NR31, -CH=N-

NR31R32,

R3

, (with X' = NR315, O, S, and R311, R312, R313,

R314, R315 being independently from each other H or C_1 - C_6 alkyl), -CH=N-NHSO₂ aryl, or -CH=N-NHSO₂- heteroaryl,

wherein m is 2-6, o is 1 or -1, and p is 1 to 2m + 0; or

m is 4-6, o is -3 and p is 1 to 2m + o; and

Y' is independently from each other selected from the group consisting of halogen, OH, OR31, NH2, NHR31, NR31R32, SH, and SR31; and wherein n is 0, 1 or 2;

R31, R32 mean independently from each other C₁-C₁₄ alkyl, C₁-C₁₄ alkanoyl, C₁-C₆ alkylamino, C₁-C₆ alkylamino-C₁-C₆ alkylamino-C₁-C₆ alkylamino-di-C₁-C₆ alkylamino-di-C₁-C₄ alkylamino-di-C₁

glucuronic acid and its stereo isomers at all optical atoms, aldopentoses, and aldohexoses, including their desoxy compounds;

R33 independently of R31, is R31, a CH₂-pyridinium salt, or a CH₂-tri-C₁-C₆ alkylammonium salt;

R34 independently of R21, is R31, H, CN, COCH₃, COOH, COOR21, CONR31R32, NH₂, or NHCOR31;

R35 independently of R31, is R31, H, CN, COCH₃, COOH, COOR31, CONR31R32, NH₂, or NHCOR31; or

R34, R35 together are C_4 - C_8 cycloalkyl;

R5 is H, C_1 - C_6 alkyl, cycloalkyl, C_1 - C_4 alkylcycloalkyl, heterocycloalkyl, C_1 - C_4 alkylheterocycloalkyl, aryl, C_1 - C_4 alkylaryl, heteroaryl, or C_1 - C_4 alkylheteroaryl;

R4, R6, R7 independently from each other are H, C₁-C₆ alkyl, or CO-R41;

R41 independently of R21, is R21;

is O, S, NH, or N-R8, wherein R8 independently from R5 is R5, or R5 and R8, together with the N, form a ring with 4, 5, 6, 7, or 8 members, which may optionally contain still another heteroatom selected from the group consisting of N, O, and S;

or X-R5 may together be H;

Y is O, S, or NR9, wherein R9 is H or C_1 - C_6 alkyl;

or a stereoisomer, tautomer or physically tolerable salt thereof.

2. (Original) The compounds according to claim 1, wherein Formula Ia or Ib adopt the stereochemistry of Formula IIa or IIb

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Claims 3-4. (Canceled)

5. (Currently amended) The compound according to claim 1, wherein

R1 is H, C₁-C₅ alkyl, or cycloalkyl;

is C_1 - C_5 alkyl, C_1 - C_4 alkylaryl, C_2 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_1 - C_2 alkylheteroaryl, C_1 - C_1 - C_2 alkylheteroaryl, C_1 - C_2 alkylheteroaryl,

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cis), COOH, COOR21, CONR21R22, -CH=NR21, -CH=N-NR21R22,

$$R_{211}$$
 X' N N C R_{212} N N N

wherein X' is NR215, O, or S; and R211, R212, R213, R214, and R215 are independently from each other are H or C₁-C₆ alkyl;

R21, R22 independently from each other are C_1 - C_6 alkyl, cycloalkyl, aryl, C_1 - C_4 alkylaryl, heteroaryl, or C_1 - C_4 alkylheteroaryl;

R23 independently of R21, is R21, a CH₂-pyridinium salt, or a CH₂-tri-C₁-C₆ alkylammonium salt;

R24 independently of R21, is R21, H, CN, COCH₃, COOH, COOR21, CONR21R22, NH₂, or NHCOR21;

R25 independently of R21, is R21, H, CN, COCH₃, COOH, COOR21, CONR21R22, NH₂, or NHCOR21; or

R24, R25 together are C₄-C₈ cycloalkyl;

R3 is C_2 - C_{14} alkyl, C_2 - C_{14} alkenyl, C_2 - C_{14} alkinyl, aryl, C_1 - C_4 alkylaryl, heteroaryl, or C_1 - C_4 alkylheteroaryl, wherein the aryls or heteroaryls may be substituted with another aryl, C_1 - C_4 alkylaryl, O-aryl, C_1 - C_4 alkyl-O-aryl, heteroaryl, C_1 - C_4 alkyl-O-heteroaryl;

R5 is H, C₁-C₃ alkyl, or cycloalkyl;

R4, R6, R7 independently from each other are H, C₁-C₅ alkyl, or CO-R41;

R41 independently of R21, is R21;

X is O, S, NH, or N-R8;

Y is O, S, or NH.

6. (Previously presented) The compound according to claim 1 in the form of an inclusion compound with cyclodextrin.

Claims 7-14. (Canceled)

15. (Previously presented) The compound according to claim 2 wherein

R1 is H, C₁-C₅ alkyl, or cycloalkyl;

is C_1 - C_5 alkyl, C_1 - C_4 alkylaryl, C_2 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_4 alkylheteroaryl, C_1 - C_5 alkenyl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_5 alkenyl, C_1 - C_5 alkenyl, heteroaryl, C_1 - C_1 - C_2 - C_3 , C_1 - C_4 - C_4 - C_5 - C_5 alkenyl, heteroaryl, C_1 - C_4 - C_5 - C_5 alkenyl, heteroaryl, C_1 - C_1 - C_2 - C_3 , C_1 - C_4 - C_4 - C_5 - C_5 alkenyl, heteroaryl, C_1 - C_4 - C_5 - C_5 alkenyl, heteroaryl, C_1 - C_4 - C_5 - C_5 alkenyl, heteroaryl, C_1 - C_2 - C_3 , C_4 - C_4 - C_4 - C_5 - C_4 - C_5 - C_4 - C_5 - C_4 - C_5 - $C_$

$$R_{211}$$
 X' N N C R_{213} R_{214}

COOR21, CONR21R22, -CH=NR21, -CH=N-NR21R22,

-CH=N-NHSO₂-aryl, -CH=N-NHSO₂-heteroaryl, or CH=N-NHCO-R23, wherein X' is NR215, O, or S; and R211, R212, R213, R214, and R215 are independently from each other are H or C₁-C₆ alkyl;

R21, R22 independently from each other are C_1 - C_6 alkyl, cycloalkyl, aryl, C_1 - C_4 alkylaryl, heteroaryl, or C_1 - C_4 alkylheteroaryl;

R23 independently of R21, is R21, a CH₂-pyridinium salt, or a CH₂-tri-C₁-C₆ alkylammonium salt;

R24 independently of R21, is R21, H, CN, COCH₃, COOH, COOR21, CONR21R22, NH₂, or NHCOR21;

R25 independently of R21, is R21, H, CN, COCH₃, COOH, COOR21, CONR21R22, NH₂, or NHCOR21; or

R24, R25 together are C_4 - C_8 cycloalkyl;

R3 is C_2 - C_{14} alkyl, C_2 - C_{14} alkenyl, C_2 - C_{14} alkinyl, aryl, C_1 - C_4 alkylaryl, heteroaryl, or C_1 - C_4 alkylheteroaryl, wherein the aryls or heteroaryls may be substituted with another aryl, C_1 - C_4 alkylaryl, O-aryl, C_1 - C_4 alkyl-O-aryl, heteroaryl, C_1 - C_4 alkyl-O-heteroaryl;

R5 is H, C₁-C₃ alkyl, or cycloalkyl;

R4, R6, R7 independently from each other are H, C₁-C₅ alkyl, or CO-R41;

R41 independently of R21, is R21;

X is O, S, NH, or N-R8;

Y is O, S, or NH.

16. (Previously presented) A pharmaceutical composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier or adjuvant.

17. (Previously presented) A pharmaceutical composition comprising a compound of claim 2 and a pharmaceutically acceptable carrier or adjuvant.